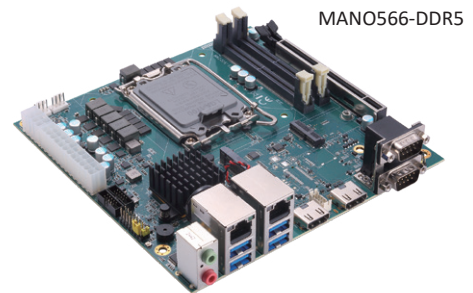
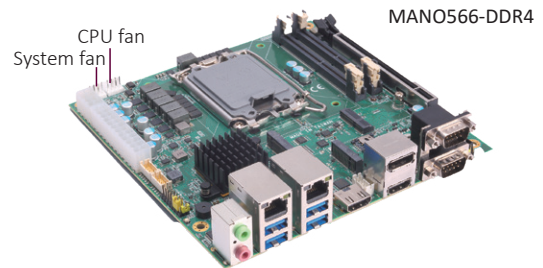
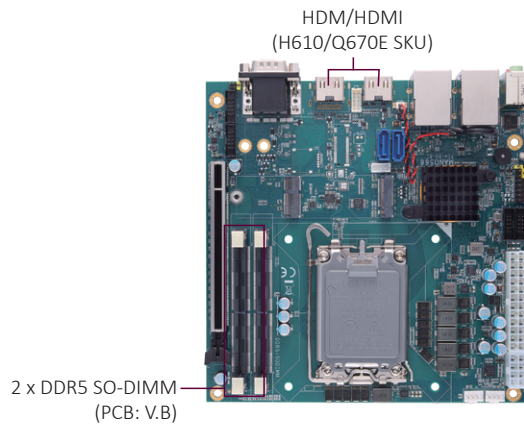
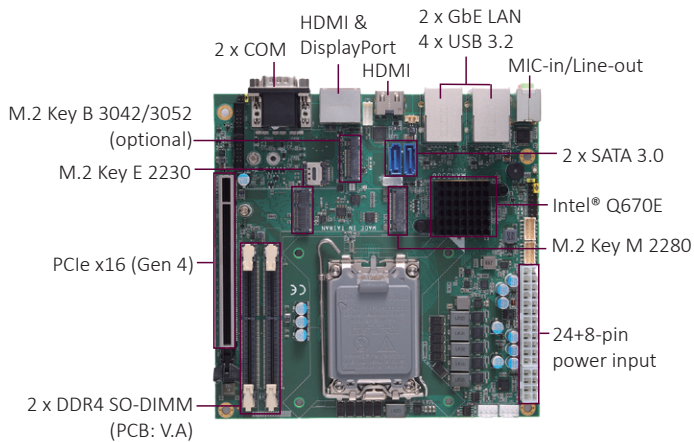
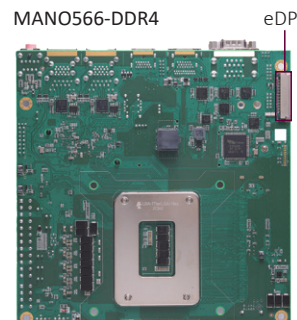


MANO566 NEW

Mini-ITX SBC with LGA1700 Socket 14th/13th/12th Gen Intel® Core™ Processor,
Intel® Q670E/R680E/H610E/H610, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, and HD Audio



▲ Side view



▲ Rear view



Triple-View



USB 3.2 Gen 2



M.2

Features

- 14th/13th/12th Gen Intel® Core™ desktop power
- Next-gen DDR5 or cost-effective DDR4 flexibility
- Quad independent displays for visual applications
- Next-gen 2.5GbE high-bandwidth networking
- Comprehensive wireless & storage expansion via M.2
- Industrial-grade connectivity and hardware security

Specifications

Core System

CPU	LGA1700 socket 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3 or Celeron® processor (up to 65W)
System Memory	2 x 260-pin DDR4-3200 SO-DIMM, up to 64GB (PCB: V.A) 2 x 262-pin DDR5-5600 SO-DIMM, up to 96GB (PCB: V.B) * Only R680E SKU supports ECC memory.
Chipset	Intel® Q670E/R680E/H610E/H610
BIOS	AMI
Storage	1 x M.2 Key M 2280 with support for NVMe
Watchdog Timer	255 levels, 1 to 255 sec.
Expansion Interface	1 x PCIe x16 1 x M.2 Key E 2230 1 x M.2 Key B 3052/3042 (Supports Q670E/R680E DDR4 SKUs & R680E DDR5 SKUs)
Battery Lithium	Lithium 3V/220mAh
Power Input	24+8-pin ATX connector Supports AT mode auto power-on
Power Consumption (Max.)	Max. Load: +12V @ 3.4A, +5V @ 2.9A, +3.3V @ 2.1A, +5VSB @ 0.1A (63W) Idle Mode: +12V @ 0.1A, +5V @ 0.1A, +3.3V @ 0.1A, +5VSB @ 0.6A (5W) Note: Power consumption measured under maximum system loading using a 65W CPU.

Display

Chipset	Intel® UHD Graphics 700 series engine
Display Interface	1 x DisplayPort++ (Supports H610/Q670E/R680E DDR4 SKUs & R680E DDR5 SKUs) 1 x eDP 2 x HDMI

I/O

External	2 x 2.5GbE LAN with Intel® I226-LM with wake-on-LAN and PXE Boot ROM supported (Supports DDR4 Q670E/R680E SKUs; DDR5 R680E SKU)
	2 x 2.5GbE LAN with Intel® I226-V with wake-on-LAN and PXE Boot ROM supported (Supports DDR4 H610E SKU; DDR5 Q670E/H610 SKU)
	HD Codec audio as MIC-in/Line-out with Realtek ALC888S
	4 x USB 3.2
Internal	2 x RS-232/422/485
	2 x SATA-600
	4 x USB 2.0
	2 x RS-232/422/485 (for DDR4 version)
	2 x RS-232 (for DDR5 version)

Key Benefits

TPM	Onboard TPM 2.0 or fTPM (TPM only supports all SKUs of V.A and the R680E SKU of V.B.)
GPIO	8-channel programmable input/output

Mechanical and Environmental

Dimensions	170 x 170 mm
Board Thickness	1.6 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Relative Humidity	10% to 95% relative humidity, non-condensing



Ordering Information

MANO566-Q670E-S (P/N: E38M566100)	Mini-ITX SBC with LGA1700 socket 14th/13th/12th Gen Intel® Core™ processor, Intel® Q670E, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, HD audio, and single box packing
MANO566-H610E-S (P/N: E38M566101)	Mini-ITX SBC with LGA1700 socket 14th/13th/12th Gen Intel® Core™ processor, Intel® H610E, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, HD audio, and single box packing
MANO566-H610-S5 (P/N: E38M566104)	Mini-ITX SBC with LGA1700 socket 14th/13th/12th Gen Intel® Core™ processor, Intel® H610, DDR5, 2 HDMI, eDP, 2 GbE LAN, HD audio, fTPM, and single box packing
MANO566-Q670E-S5 (P/N: E38M566103)	Mini-ITX SBC with LGA1700 socket 14th/13th/12th Gen Intel® Core™ processor, Intel® Q670E, DDR5, 2 HDMI, eDP, 2 GbE LAN, HD audio, fTPM, and single box packing
MANO566-R680E-S5 (PN: E38M566105)	Mini-ITX SBC with LGA1700 14th/13th/12th Gen Intel® Core™ processor, Intel® R680E, DDR5, 2 HDMI, DisplayPort++, eDP, 2 GbE LAN, HD audio, and single box packing

Optional

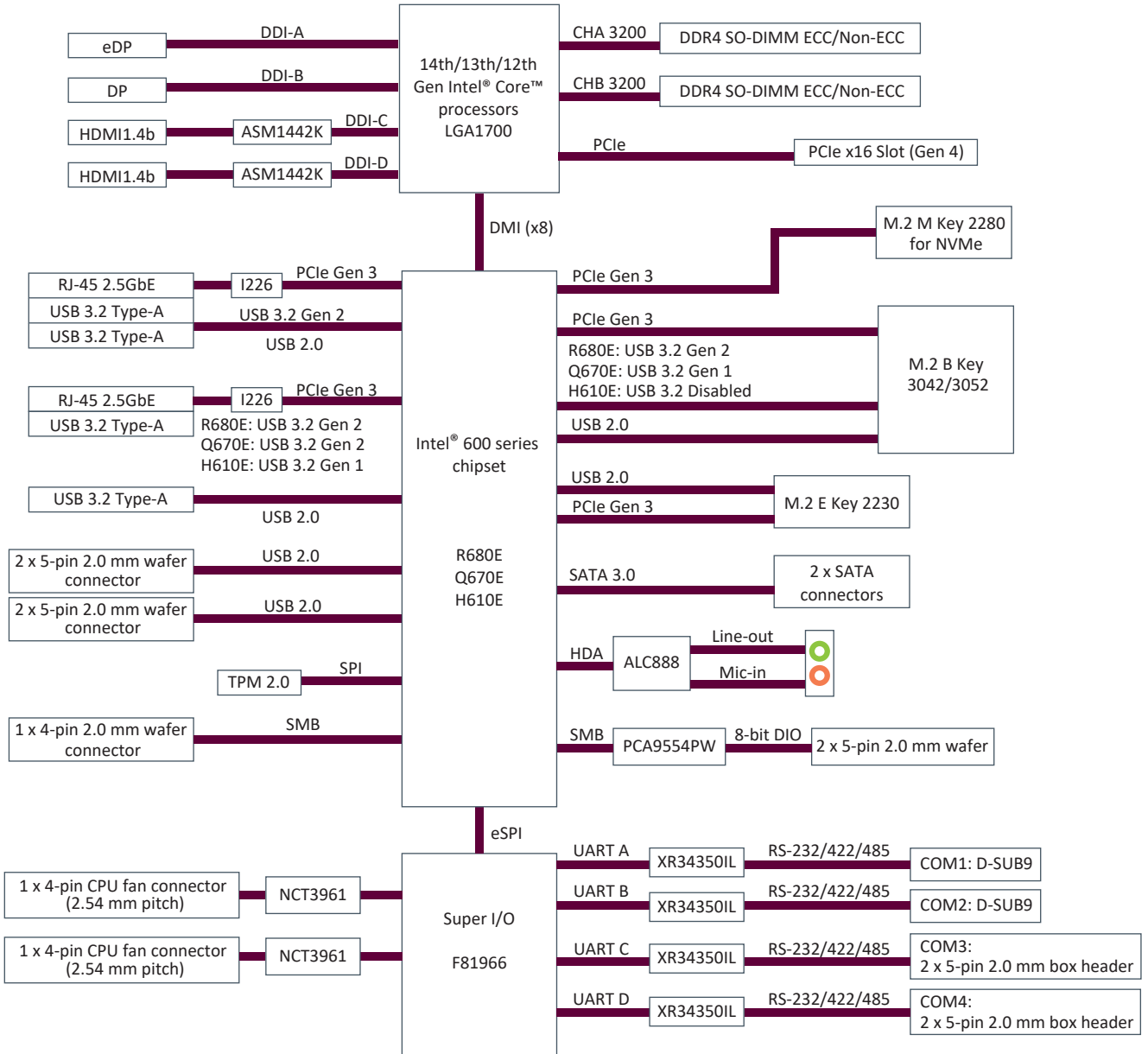
594E8422800E	DDR4 V.A USB cable, USB 2.0 x 2 / HS, 2 x 5-pin P2.0 header with bracket, L = 180 mm
591000018100	DDR5 V.B USB cable, USB 2.0 x 2 / HS, 10-pin P2.0 header with bracket, L = 180 mm
590000039200	COM port cable, HS, 2 x 5-pin, P=2.0 mm, L=300 mm
713000001400	LGA1700 2U cooler, 4,800 RPM
505000001000	LGA1700 1U cooler, 4,500 RPM
505000001100	LGA1700 1.5U cooler, 5,500 RPM

Packing List

I/O bracket

Block Diagram

MANO566-DDR4



Block Diagram

MANO566-DDR5

